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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/589,971-Conf. #2321
				Filing Date	July 2, 2007
				First Named Inventor	Graham Eastham
				Art Unit	1621
				Examiner Name	P. A. Zucker
Sheet	1	of	6	Attorney Docket Number 31229-233960	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number/Kind Code <small>2 (if known)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AA*	US-4,377,708	03-22-1983	Morris		
AB*	US-4,500,727	02-19-1985	Kitamura et al.		
AC*	US-4,517,061-A	05-14-1985	Jean-Francois Fauvarque		
AD*	US-4,900,413-A	02-13-1990	Masato TANAKA et al.		
AE*	US-5,245,098-A	09-14-1993	Fernando J. HAMILTON et al.		
AF*	US-6,348,621-B1	02-19-2002	Wang et al.		
AG*	US-4,504,684	03-12-1985	Joseph R. FOX et al.		
AH*	US-5,246,558	09-21-1993	Chevignat et al.		
AI*	US-20050090694	04-28-2005	Drent et al.		
AJ*	US-20040162440	08-19-2004	Bunel et al.		
AK*	US-5,563,308	10-08-1996	Spindler et al.		
AL*	US-5,760,264	06-02-1998	Breden		
AM*	US-5,783,715	07-21-1998	Pugin		
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AP*	US-6,191,284	02-20-2001	Knochel et al.		
AQ*	US-6,258,979	07-10-2001	Kagan et al.		
AR*	US-6,284,925	09-04-2001	Knochel et al.		
AS*	US-6,337,406	01-08-2002	Zhang		

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BA	EP-0144118	06-12-1985	Standard Oil Co Ohio			
BB	WO-0170659	09-27-2001	Kvaerner Process Tech Ltd et al.			
BC	WO-0212161	02-14-2002	Kvaerner Process Tech Ltd et al.			
BD	WO-2004/050599-A1	06-17-2004	Lucite Int Uk Ltd et al.			
BE	WO-03/070370-A1	08-28-2003	Shell Int Research et al.			
BF	WO-2004/014552-A1	02-19-2004	Lucite Int Uk Ltd et al.			

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AT*	US-6,521,769	02-18-2003	Zhang		
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BG	WO-2005/003070-A1	01-13-2005	Lucite Int Uk Ltd et al.		
BH	WO-2004/024322-A2	03-25-2004	Lucite Int Uk Ltd et al.		
BI	WO-99/47528-A1	09-23-1999	Ici Plc et al.		
BJ	WO-2005/079981-A1	09-01-2005	Lucite Int Uk Ltd et al.		
BK	WO-98/41495	09-24-1998	IMPERIAL CHEMICAL INDUSTRIES PLC		
BL	WO-98/42717	10-01-1998	Shell Internationale Research		
BM	WO-04/103948	12-02-2004	Shell Internationale		
BN	WO-05/082830	09-09-2005	Shell Internationale Research		
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BQ	EP-0728733-A1	08-28-1996	Dsm Nv et al.		
BR	EP-0305089-A1	03-01-1989	British Petroleum Co Plc		
BS	FR-2034147-A5	12-11-1970	Inst Francais Du Petrole		
BT	EP-0683764-A1	11-29-1995	Shell Int Research		
BU	WO-01/85662-A2	11-15-2001	Basf Ag et al.		

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	CA	WANG et al., "POLYMER-BOUND BIDENTATE PHOSPHINE-PALLADIUM COMPLEX AS A CATALYST IN THE HECK ARYLATION", J. Org. Chem. Vol. 59, No. 18, 1994, pages 5358-5364.			
	CB	HOFMANN et al., "BIS(DI-T-BUTYLPHOSPHINO)METHANE COMPLEXES OF RHODIUM: HOMOGENEOUS ALKyne HYDROSILYLATION BY CATALYST-DEPENDENT ALKYNE INSERTION INTO Rh-Si OR Rh-B BONDS. MOLECULAR STRUCTURES OF THE DIMER [(dtbpm) RhCl]2 AND OF THE SİLYL COMPLEX (dtbpm) Rh[Si(OEt)3](PMe3)", Journal of Organometallic Chemistry, Vol. 490, 1995, pages 51-70.			
	CC	LINDNER et al., "CATALYTIC ACTIVITY OF CATIONIC DIPHOSPALLADIUM (II) COMPLEXES IN THE ALKENE/CO COPOLYMERIZATION IN ORGANIC SOLVENTS AND WATER IN DEPENDENCE ON THE LENGTH OF THE ALKYL CHAIN AT THE PHOSPHINE LIGANDS", Journal of Organometallic Chemistry, Vol. 602, 2000, pages 173-187.			
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	CE	TAMAO et al., "ALKYL GROUP ISOMERIZATION IN THE CROSS-COUPLING REACTION OF SECONDARY ALKYL GRIGNARD REAGENTS WITH ORGANIC HALIDES IN THE PRESENCE OF NICKEL-PHOSPHINE COMPLEXES AS CATALYSTS", Journal of the American Chemical Society, Vol. 94, 1972, pages 9268-9269.			
	CF	JONES et al., "RHODIUM-CATALYZED ACTIVATION AND FUNCTIONALIZATION OF THE C-C BOND OF BIPHENYLENE", Organometallics, Vol. 20, 2001, pages 5745-5750.			
	CG	Kirk Othmer Encyclopaedia of Chemical Terminology, vol. 9, 4th Ed., p. 783, Hydrolysis of Organic Esters, pp. 783-85 and 87, John Wiley & Sons, January 1994.			
	CH	MASTERS, Christopher, "Homogeneous Transition Metal Catalysis," p. 4-21, Chapman and Hall, February, 1981.			
	CI	Lide et al., Handbook of Chem and Phys., 76th Ed., CRC Press, 1995, ps. 8-141 6-155 to 6-177; 15-16 to 15-25			
	CJ	CLEGG, W. ET AL: "Highly active and selective catalysts for the production of methyl propanoate via the methoxycarbonylation of ethene" CHEM. COMMUN., 1999, pages 1877-1878			
	CK	KNIGHT ET AL: "Remarkable Differences in Catalyst Activity and Selectivity for the production of Methyl Propanoate versus CO-Ethylene Copolymer by a Series of palladium Complexes of Related C4-Bridged Diphosphines" Organometallics 2000, 19 4957-4967			
	CL	ADAM J. RUCKLIDGE ET AL.: "Methoxycarbonylation of vinyl acetate catalysed by palladium complexes of bis (diteriarybutylphosphinomethyl) benzene and related ligands" CHEM. COMMUN., 2005, pages 1176-1178			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>					

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	CM	Brunkan et al. "Effect of chiral cavities associated with molecularly imprinted platinum centers on the selectivity of ligand-exchange reactions at platinum", Journal of American Chemical Society, no. 22, pages 6217-6225, (2000).			
	CN	Brunkan et al. "Unorthodox C,O binding mode of Me ₂ BINOL in Pt(II) complexes", Journal of American Chemical Society, no. 120, pages 11002-11003, (1998).			
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	CP	Hartwig, et al. "Structure and reactions of oxametallacyclobutanes and oxametallacyclobutenes of ruthenium", Organometallics, vol. 10, no. 9, pages 3344-3362 (1991).			
	CQ	Kondo et al. "Preparation and spectroscopic characteristics of geometrical isomers of bis[1,2-bis(dimethylphosphino)ethane]cobalt(III) complexes with thiolate ligands", The Chemical Society of Japan, no. 62, pages 3475-3478, (1989).			
	CR	Cecconi et al. "Palladium complexes with the tripodal phosphine tris(2-diphenylphosphinoethyl)amine. Synthesis and structure of trigonal, tetrahedral, trigonal bipyramidal, and square planar complexes", J. Chem. Soc. Dalton Trans., issue 1, pages xvii - xx, (1989).			
	CS	Miskowski et al. "Preparation and spectroscopic properties of Cobalt(III) complexes containing phosphine ligands. The electronic structural description of side-bonded dioxygen", Journal of American Chemical Society, vol. 98, no. 9, pages 2477-2483, (1976).			
	CT	Hayward et al. "Some reactions of peroxybis(triphenylphosphine)platinum(II) and analogs with carbon dioxide, carbon disulfide, and other unsaturated molecules", Journal of American Chemical Society, vol. 92, issue 20, pages 5873-5878, (1970).			
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	CV	Andrews et al. "Syntheses, spectra and structures of (diphosphine)platinum(II) carbonate complexes" Inorganic Chemistry, no. 35, pages 5478-5483, (1996).			
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	CX	Becker et al. "Synthesis and characterization of chiral diphosphine platinum(II) VANOL and VAPOL complexes", Organometallics, no. 22, pages 3245-3249, (2003).			

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Sheet

5

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CY	Becker et al. "Imprinting chiral information into rigidified dendrimers", <i>Organometallics</i> , no. 22, pages 4984-4998, (2003).		
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CC1	Tudor et al. "Diastereomeric interconversion in chiral BiphepPtX ₂ complexes", <i>Organometallics</i> , no. 19, pages 4376-4384, (2000).		
CD1	Bellabarba et al., "Synthesis, X-ray characterization and reactions of a trigonal planar palladium(II) carbonyl complex", <i>Chemical Communications</i> , no. 15, pages 1916-1917, (2003).		
CE1	Clegg et al., "Synthesis and reactivity of palladium hyrido-solvento complexes, including a key intermediate in the catalytic methoxycarbonylation of ethane to methylpropanoate", <i>Journal of the Chemical Society, Dalton Transactions</i> , no. 17, pages 3300-3308 (2002).		
CF1	Clegg et al., "Characterisation and dynamics of [Pd(L-L)H(solv)] ⁺ , [Pd(L-L)(CH ₂ CH ₃)] ⁺ and [Pd(L-L)(C ₂ O ₄)Et](THF) ⁺ (L-L = 1,2-(CH ₂ PhBut ₂ C ₆ H ₄): Key intermediates in the catalytic methoxycarbonylation of ethane to methylpropanoate", <i>Organometallics</i> , vol. 21, no. 9, pages 1832-1840 (2002).		
CG1	Edelbach et al., "Catalytic hydrogenolysis of biphenylene with platinum, palladium, and nickelphosphine complexes", <i>Organometallics</i> , vol. 17, no. 22, pages 4784-4794 (1998).		
CH1	Kim et al., "Synthesis and theoretical study of palladium (II) complexes with aminophosphines as 7-membered chelate rings", <i>Bulletin of the Korean Chemical Society</i> , vol. 18, no. 11, pages 1162-1166 (1997).		
CI1	Reddy et al., "Unexpected cross-metathesis between Si-C and Si-Si bonds", <i>Chemical Communications</i> , no. 16, pages 1865-1866 (1996).		
CJ1	Uchimaru et al., "Ring-opening polymerization of 1,1,2,2-tetramethyl-1,2-disilacyclopentane via palladium complex-catalysed Si-Si bond metathesis", <i>Chemistry Letters</i> , no. 2, page 164 (1995).		

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CK1	Portnoy et al., "Reactions of electron-rich arylpalladium complexes with olefins. Origin of the chelate effect in vinylation catalysis", Organometallics, vol. 13, no. 9, pages 3465-3479 (1994).				T
CL1	Wurst et al., "Synthesis and structure of the platinum (0) compounds [(dipb)Pt]2(COD) and (dipb)3Pt2 and of the cluster Hg6[Pt(dipb)]4 (dipb = (iPr)2P(CH2)4P(i-Pr)2)", Zeitschrift Für Anorganische Und Allgemeine Chemie, vol. 395, pages 239-250 (1991).				
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CN1	Molander et al., "Synthesis and application of a chiral cyclopropane-based ligands in palladium-catalyzed allylic alkylation", Journal of Organic Chemistry, vol. 69, no. 23, pages 8062-8069 (2004).				
CO1	Brauer et al., "Reactions of coordinated ligands. XIV. Synthesis of a tetradentate phosphorus macrocycle in a palladium (II) template", Chemische Berichte, vol. 119, no. 1, pages 349-365 (1986).				
CP1	Dias et al., "Synthesis and characterization of eta-5-monocyclopentadienyl (p-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies", Journal of Organometallic Chemistry, vol. 475, no. 1-2, pages 241-245 (1994).				
CQ1	PUGH, R. I. et al. "Tandem isomerisation-carbonylation catalysis: highly active palladium(II) catalysts for the selective methoxycarbonylation of internal alkenes to linear esters", Chemical Communications - CHEMCOM, Royal Society of Chemistry, GB, no. 16, (August 21, 2001), pages 1476-1477.				
CR1	Cullen et al., "Structure of the Hydrogenation Catalyst [(PP)Rh(NBD)]ClO4, (PP) = (-[CH3)3C]2PC5H4)2Fe, and Some Comparative Rate Studies," Organometallics, vol. 2, pp. 714-719, 1983.				
CS1	Abbenhuis et al., "Successful Application of a "Forgotten" Phosphine in Asymmetric Catalysis: A 9-Phosphabicyclo[3.3.1]non-9-yl Ferrocene Derivative as a Chiral Ligand," Organometallics, vol. 14, pp. 759-766, 1995.				

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AA*	US-2006/0106259 A1	06-18-2006	Eastham et al		
AB*	US-5,149,868	09-22-1992	Drent		
AC*	US-5,436,356	07-25-1995	Drent et al.		
AD*	US-4,960,926	10-02-1990	Drent		
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AF*	US-5,189,003	02-23-1993	Klusener et al.		
AG*	US-5,158,921	10-27-1992	Drent et al.		
AH*	US-5,103,043	04-07-1992	Drent et al.		
AI*	US-5,099,062	03-24-1992	Drent et al.		
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BA	WO-01/65583-A1	09-07-2001	Siemens Ag et al.		T
BB	EP-0495348-A1	07-22-1992	Koenig Wolfgang		
BC	EP-0495347-A1	07-22-1992	Analis Sa		
BD	DE-10023470-A1	11-15-2001	Basf Ag	US 6,753,450	
BE	DE-10037961-A1	02-07-2002	Aventis Res & Tech GmbH & Co	US 7,148,176	
BF	DE-19745904-A1	04-22-1999	Hoechst Ag	US 6,462,095	

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/589,971-Conf. #2321
				Filing Date	July 2, 2007
				First Named Inventor	Graham Eastham
				Art Unit	1625
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	31229-233960

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Sheet	3	of	3	
				Attorney Docket Number
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NON-PATENT LITERATURE DOCUMENTS

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	CA*	Related U.S. Patent Application No. 10/524,023, filed November 17, 2005, Eastham et al.
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